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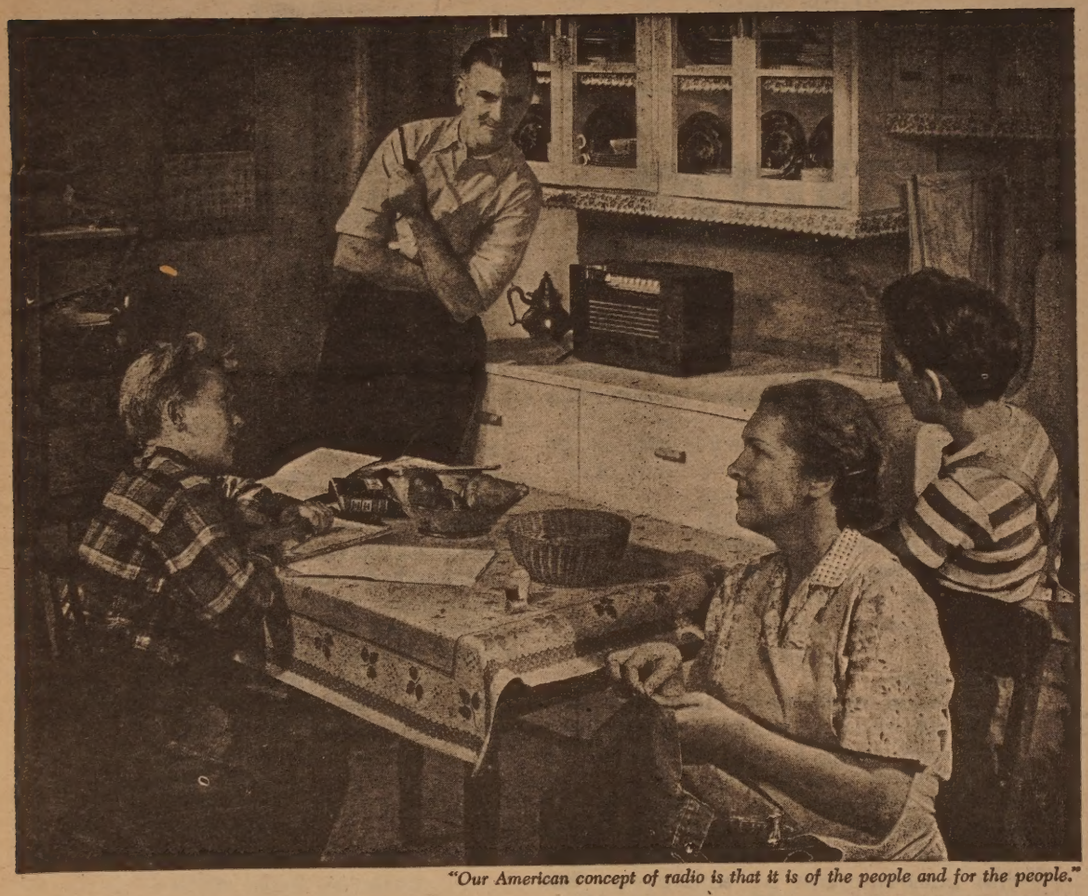
THE NEWSPAPER FOR
THE HOBBYIST OF VINTAGE
ELECTRONICS AND SOUND

THE HORN SPEAKER

RADIO-CRAFT for JANUARY, 1948



"Our American concept of radio is that it is of the people and for the people."

Freedom to LISTEN – Freedom to LOOK

As the world grows smaller, the question of international communications and world understanding grows larger. The most important phase of this problem is *Freedom to Listen* and *Freedom to Look*—for all peoples of the world.

Radio, by its very nature, is a medium of mass communication; it is a carrier of intelligence. It delivers ideas with an impact that is powerful . . . Its essence is freedom—liberty of thought and of speech.

Radio should make a prisoner of no man and it should make no man its slave. No one should be forced to listen and no one compelled to refrain from listening. Always and everywhere, it should be the prerogative of every listener to turn his receiver on or off, of his own free will.

The principle of *Freedom to Listen* should be established for all peoples without restriction or fear. This is as important as *Freedom of Speech* and *Freedom of the Press.*

Television is on the way and moving steadily forward. Television fires the imagination, and the day is foreseen when we shall look around the earth from city to city, and nation to nation, as easily as we now listen to global broadcasts. Therefore, *Freedom to Look* is as important as *Freedom to Listen,* for the combination of these will be the radio of the future.

The "Voice of Peace" must speak around this planet and be heard by all people everywhere, no matter what their race, or creed, or political philosophies.*

David Sarnoff

President and Chairman of the Board,
Radio Corporation of America.

**Excerpts from an address before the United States National Commission for UNESCO.*

WHAT READERS ASK

POPULAR RADIO, July 1922

QUESTION: I want to build a simple crystal receiver. The simplest circuit you could give me would be the best, as this will be my first attempt at building a set.

JOS. KENYON

ANSWER: The circuit shown in Figure 4 provides for a single slide tuning coil, a crystal detector, a small fixed bridging condenser, and a pair of receiving telephones. By adjusting the detector and moving the slider on the coil. different wavelength signals can be picked up. The range of this set is about 20 miles.

* * *

QUESTION: What is the best detector to use in a radio receiver?

WM. HANSEN

ANSWER: The vacuum tube or audion is by far the most efficient. The crystal detector is cheaper and simpler to operate, but it will not detect distant messages or bring in signals as loud as the audion.

* * *

QUESTION: What is the correct length of antenna to use in order to receive the radio broadcasting on 360 meters? My antenna is only 40 feet above the ground.

F. G. ORNEROD

ANSWER: You should make your one wire antenna about 100 to 150 feet in length. Use as short a lead-in as possible.

* * *

QUESTION: I have a quantity of fixture wire which I can strip of its rubber and braided covering, if it would be of any use. Will this wire be suitable or not? I do not want to do all this work only to find out that the wire is no good for such a purpose.

H. BARNES

ANSWER: You may use the wire but you do not have to strip it of its insulated covering as it will work just as well with it as without it. The insulation does not affect the antenna in the least as far as functioning efficiently is concerned.

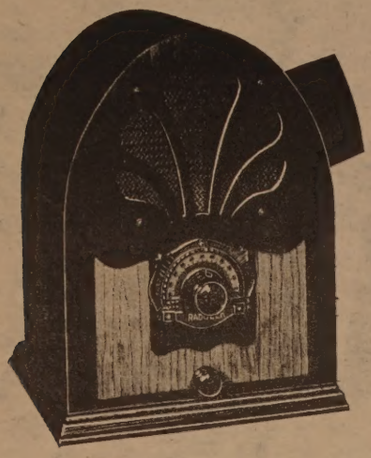
* * *

QUESTION: What is the difference between a variable condenser and a variometer?

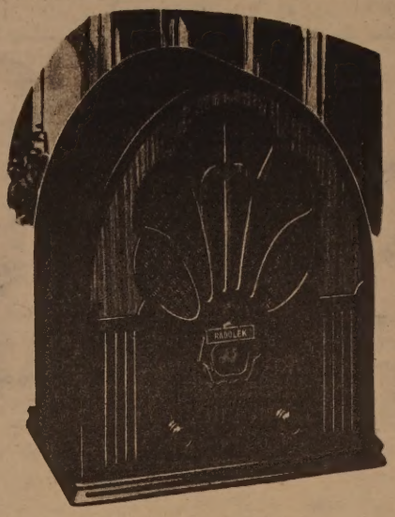
L. L. ROMERSHEUSER

ANSWER: A variable condenser is an electrical instrument for controlling the amount of capacity in a circuit. A variometer is an electrical instrument for controlling the amount of inductance in a circuit.

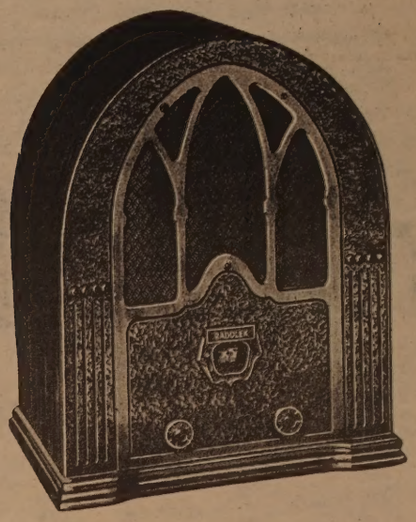
RADOLEK 1933



The "Little Leader"



"Little Master"



SUPERHET

letters

GONE IS THE RESPECTED CITIZEN

Once I could pass by where the deadly stuff is sold and never bat an eye. To-day, alas, my feet carry me into the open doors where temptation lurks: I am no longer strong enough to "take it or leave it alone"

Hi Jim:

Need to find some old gear, so will advertise in your paper. Seems like everybody reads the Horn Speaker. Hi.

Keep up the great and much needed service.

73s,
Woody

Wm. W. Wilson, WA6KVW
408 Oak Manor Drive
Fairfax, CA 94930

Dear Jim:

I have received several issues of your magazine since subscribing, and I really have to compliment you on the fine job you're doing. I subscribe to other periodicals dealing with antique radios, but none have the combination of articles, ads and classifieds that yours does.

Do you have many subscribers from the New England area? I do restoration and repair on antique radios but really haven't found that many true collectors in my area. Maybe this is true because most collectors probably do their own work and for that reason I never get to do business with them. Looking through some back issues, however, I do not see any ads or letters from my area.

Most of the repair jobs I get are for AC sets of the late 30s and early forties. I guess this category of radios is just old to be worth saving, but new enough to be plentiful. Many are sets once used by close relatives of my customers, and have a lot of sentimental value because the customer remembers it from childhood days.

Well, in any event, thanks for a fine publication and let's get going New England.

Sincerely,
Ron Boucher
376 Cilley Rd.
Manchester, Nh
03103

EDITOR...At the latest count we have about 150 names in the New England area or zips beginning with a zero.

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Subscribers, advertisers, photographers and writers, please use the following address;

THE HORN SPEAKER
P.O. BOX 53012
DALLAS TX 75253

Dear Jim:

Thank you for your recent letter in reply to my query about my subscription to the newspaper. Enclosed please find a cheque for U.S. $12.00 for a further subscription, this time for 2 years, to continue after my present subscription expires.

No new old time radios have come into my hands, but as a result of some newspaper publicity about the newly formed New Zealand Vintage Radio Society a few have surfaced which club members will look at. These include Atwater Kent, Zenith, Brunswick and Majestic. The Society is slowly sorting itself out and we have had talks on transformers, restoration techniques and lots of interesting discussions. At the meeting this month (28th April) I am giving a talk on "Neutralization, Antique and Modern" which I hope to demonstrate a mock up receiver using old Majestic 91 coils. If the test shapes up OK you would be quite welcome to a copy.

Membership of the New Zealand Vintage Radio Society is rising but slowly, but as funds become more readily available we will embark on a country wide advertising campaign which should net us some more members. If present enthusiasm continues there does not seem any reason against the Society prospering.

In passing I might mention that I have just finished reading HIS MASTERS VOICE WAS ELRIDGE R. JOHNSON a biography by E. r. Fenimore Johnston, -- State Media Inc. Milford Delaware.

The book was recently imported from the United States. I can recommend it as excellent reading about the early phonograph days. If and when you get time to drop me a line, it would be appreciated. Keep up the good work.

Yours sincerely
with kind regards,
Arthur E. Allen
452 Point Chevalier Road
Point Chevalier,
Auckland. 2
New Zealand

Gentlemen:

I enclose an ad I wish you would publish in your magazine. I enjoy reading your magazine, especially illustrations of old sets. I wish you would publish diagrams of wiring for old sets that are not in Riders or Gernsback books. Those of the early 1919 and 20s like Ace, Zenith portables-- sets using UV99 and WD11 tubes, etc..

I have several old sets but no hook-ups seem to be available.

Thanks for your service,
J. N. Clapp
1202 W. 5th Street
DeWitt, Iowa 52742

EDITOR...We will try to publish older diagrams, especially the ones with wide interest.

Dear Jim:

I found something quite interesting at our last Indiana Historical Radio Society meeting and swap meet-- a Philco extension speaker using mainly what is a modified model 71 cabinet and a very hefty magnetic speaker of 8 inch diameter. I've never seen any mention of this and there is no model number on it. It looks like there was a paper on the bottom of the inside of the cabinet. I will send some pictures later.

Best wishes,
Frank Heathcote

Dear Jim:

Collecting has been slow due to the pressure of business. I'm slowly restoring an IP501 as I get the time and I have yet to attack a Kennedy 525 amp which needs a total internal rebuild. Could any reader photograph the insides of this unit as a guide for me? I'd sure be grateful.

Best regards,
Louis Lindauer
3 Beacon Hill Road
Port Washington, NY
11050

EDITOR...I'm sure someone will furnish pictures.

Dear Jim:

I have noticed the increasing interest in the collection and restoration of the wood case radios of the thirties and forties and would be happy to contact readers who are likewise involved. I switched to this category after losing my entire collection of the earlier battery operated radios in a fire. Reviving the old plug-in carcasses so they look and work like they just came from the factory (American factories no less) is a hobby I am enjoying immensely in my retirement. Furthermore, I find the young married couples (much to my surprise) are the people most interested in acquiring these nostalgic gems.

You're correct at this point if you suspect that my main interest is in restoring rather than collecting. But make no mistake, the worst part of the episode is when I must part with a child of my labors.

Yours truly,
M. Kranzel
7880-54th Ave.
No. 125
St. Petersburg, FL
33709

Dear Jim:

I'm enclosing a check to cover a year's subscription to your fine publication. Since I'm particularly interested in antique mechanical TV technology, also please send me the October 1979 issue that details Mr. Babcock's speech on mechanical TV at Elgin last year.

I've noticed a small but apparently increasing interest in mechanical TV over the years. Apparently the equipment is rare. In fact I've never even seen a schematic of the cameras (televisors) used by Baird, Jenkins, Ives, and Alexanderson back in the twenties and thirties. On the other hand, back issues of POPULAR SCIENCE and POPULAR MECHANICS have furnished me with diagrams of receiving equipment and I've even tried building some of it (modifying of course to suit my junkbox stock of parts).

Some day soon I hope to see more details on mechanical TV in your publication. In the meantime I'll be enjoying all the other letters and articles and some fascinating ads. Thanks.

Cordially,
James T. Hawes
550 Sherman Ave. No. 1
Evanston, IL 60202

EDITOR...Aways glad to hear a reader's wants and needs so that we will know what to publish. Unfortunately, we do not have a detail account of Mr. Babcock's speech on mechanical TV, all I can remember is a picture. I hope that later he will send us something that I believe that you have in mind. Larry Babcock has already been most generous about sending information.

Dear Jim:

My dad, Morris BEitman, passed away a short while ago. I know you had corresponded with him in the past and thought you would want to know. I suppose many of your readers knew of him and probably have some of his Su-

preme books.

I have put together an ad for the newest edition of my Directory of Antique Radio Collectors and Suppliers. This is a great tool for your readers since it will help them reach local suppliers or find other collectors in their area. It is a real bargain (about my cost).

Please run the ad in the next edition and bill me.

Thanks for all your help. Looking forward to the next edition of THE HORN SPEAKER.

Sincerely,
Harty Beitman
646 Kenilworth Terrace
Kenilworth, IL 60043

Tnx agn. Jim, for all the vry fine articles. It goes without saying I enjoy your paper vry vry much. The old crystal set stuff is just great and anything about the old CW stations. Age is 57 and still pounding brass and building ham stuff and crystal sets. Just a big kid hi hi.

73 OM & TNX
John, W8CAE

FIND

You flatter me- wanting to publish my FIND. have at it, feller- but edit it to make publishing sense, hi. Enclosed is a full list of what was in the box, all for $10.00.

Brassed based WD-12 open fil. but good for display; CX 200 in box open fil.; UV-199 Radiotron; 'Diatron' 201A mint; brass 201; audio trans.; knife switches; knob with pointer; metal vernier dial; 3" metal dials; Pilot 4" dials mint; A-B variable resistors; Frost phone jacks; Chelsea radio 3" dials; UV-199 sockets; tubular grid leak; speaker unit; Federal Radio phone tip to plug; Paragon rheostat with knob; radio foil; white porc. insulators; Chas. Freshman variable grid leak; General Radio coil forms, no plugs; Remler honeycomb coil; type 75 DeForest HC coil; Marle audio; tel. receiver; Gilfillan UV socket in original box; Boston Jr. no. 14; Leader watchcase battery meter; Murdock bypass; Benjamin cushion UX sockets; radio panel markers; 1921 Weston meter catalog; no. 30 carborundum det. in original box telegraph practice set; Philco arrester; Amperite 4V-199 in box Corwico insulators; telephone arrester;
arrester; 3" dial; audio trans; 21 plate variable; 21 plate Cardwell; variocoupler basket mint; B T 3 circuit tuner; porc. panel UVs; silicon crystal in original box; mounted galena; several other coils, rheostats, etc. Many items listed are multiple.

Been dickering with your fellow Texan Dachis (???) over in Austin, trying for a Hallicrafter 'Sky Buddy' (or Champion) to add to my small collection of old time gear. No go yet since his asking price is a bit higher than my available money, hi. Guess this keeps many an old timer from collecting, today's high cost.

I've been retired for four years after 37 years with the local Sears, Roebuck operation and I'll be 66 February 12th-- man does time fly.

If I didn't mention it in my other notes, I have sort of specialized in old amateur and related equipment. I am a student of 'George Grammer, old QST designs etc.' If you ever do any px on ole 1930 ham gear I'd like to send a px to be published.

Old (lovingly) Basil Abbott stopped here to see me during the holidays. Enjoyed the eyeball.

Well, lemme run- today is 'hams luncheon down at the 'poboy' place, and I don't want to miss the fun and conversation.

Sincerely, Wes-W5DPM
Wes Chatellier
1950 Chevelle Dr.
Baton Rouge, LA 70806

CLINIC

BRASSO
by Ron Boucher

If there is such a thing as an "all purpose cleaner and polish" for antique radios it would probably have to be "BRASSO". Anyone who has ever been in the military would probably be familiar with this product, as it is a very good polish for brass. It's available in many grocery stores. It comes in a can and is in liquid form.

I discovered its usefulness for antique radios quite by accident. I was shining up a brass dial plate on a radio one time, and as I was rubbing away, some of the polish got on the wood finish and some of it got on the glass, because luckily I had not bothered removing the plate from the radio. Once I was done with the rubbing I wiped away the excess polish and the brass was shining like new, but so was the glass and wood finish.

Apparently Brasso has a very fine abrasive in it and that is what does the trick. It scrubs off the dirt then takes off the roughness on the surface brought on by age. Regular cleaning usually leaves the surface dull. What a job it does on bakelite and tubes too. Careful, it removes the tube numbers.

The process is to rub the surface for a few minutes with a cloth "wetted" with polish. Let the polish dry, then clean off with a clean cloth. The important part is to rub so that the abrasive can work. After this, use some old English Polish.

This is a good process for purists who do not want to lose the original finish as happens as you know when the cabinet is refinished.

Contributed by
Ron Boucher of
Vintage Radio Servicing
376 Cilley Road
Manchester, NH 03103
(603) 669-1698

country music foundation

AUDIO RESTORATION LAB

NASHVILLE----The Country Music Foundation Library and Media Center announces the opening of its new audio restoration laboratory, an outstanding addition to the technical capabilities of Nashville's music industry.

The laboratory is the most sophisticated facility in the United States for restoring the sound on pre-stereo recordings to its original quality. Designed and built by Art Shifrin, a leading sound restoration authority, the Foundation's audio restoration laboratory is the result of over 18 months of planning and construction.

In addition to handling Country music Foundation sound restoration projects, the laboratory will be available to outside companies for commercial uses. The laboratory will be especially useful to record companies involved in reissuing historical recordings.

"Our laboratory is capable of producing master tapes from original recordings, test pressings, transcriptions, and early tape masters," said Danny Hatcher, the Country Music Foundation's deputy director for library operations.

The audio restoration laboratory has complete variable speed, two track recording capabilities for quarter-inch tape. Its basic mastering machines are full-track mono. The lab contains over 30 pieces of equipment, some of which was custom-designed for the Country Music Foundation. The lab includes two mastering machines, sound filtering and equalization equipment, special styluses for different record grooves sizes, turntables, and noise suppression units designed especially for audio restoration work.

Bill Ivey, director of The Country Music Foundation, said, A primary use of our audio restoration laboratory will be for our library and media center to preserve the sound on materials that are deteriorating. The best example of this is acetate radio transcriptions, which literally fall apart with the passing of time.

"Secondly, we hope this lab, by being in the center of the country music recording industry will stimulate the re-release of historical material in the country field. Country music has lagged behind jazz in reissuing historical recordings and we'd like to spark an interest in this area.

"Thirdly, through licensing, leasing and other cooperative arrangements, the Foundation hopes to reissue some historical recordings on its own label."

Jimmie Rodgers and Will Rogers.

Dwight Butcher, co-writer of "Old Love Letters", one of the last songs recorded by Jimmie Rodgers.

Ivey added that " With the holdings of our library, our staff's knowledge and the technical resources of our audio lab we can help any record label develop reissues of their own product. This means we can do everything from developing a concept for an album and choosing selections to producing master tapes."

Engineer Alan Stoker will operate the audio restoration laboratory for the Country Music Foundation Library and Media Center.

If you could only see them:— "And now folks, you are listening to a half hour for dinner music by the Three Husketeers, Dr. Veeral's Health Biscuit Trio."

scrapebook clipping

THE HEROINES OF VINTAGE RADIO
by Morgan E. McMahon

Gayle McMahon Rowland and Sarah 'Betty' McMahon are the heroines of Vintage Radio. These two nice ladies are now busily shipping books and chasing down those hard-to-find radio circuit diagrams. If it weren't for Gayle and Betty, there would be no place to get new copies of our old friends; VINTAGE RADIO, A FLICK OF THE SWITCH, GERNBACK'S 1927 RADIO ENCYCLOPEDIA or SUPREME'S MOST OFTEN NEEDED 1926-1938 RADIO DIAGRAMS. Also, our radio circuits research service would be no more.

The problem is that my wife, Gladie and I, who first published our radio collector's books, had to give up our little book venture. The reason is that I must return to my full-time carreer as technial director for TRW's active component businesses.

Gladie and I searched for someone else to take over Vintage Radio, but without success. We couldn't find someone with the time, interest and financial resources to take over the business, even though it does not earn an income. It looked like all our books would just go into storage, waiting for the day when someone would meet the challenge and start shipping books again. Things looked pretty dismal. Last Spring we announced that Vintage Radio would be shutting down.

Then two angels stepped forward. Gayle, my sister, volunteered to do allthe correspondence, filing, paperwork and circuit diagrams research. Betty, my stepmother, volunteered to do the packing and shipping. Now these two ladies will continue to ship until present stocks are gone, or until someone else can take over.

After Betty and Gayle volunteered our problem was to get the books, references and shipping equipment from Los Angeles to North Highlands near Sacramento. It seemed that the time had come for a 400-mile adventure in moving. So we rented a truck and loaded it with 3,000 pounds of books, 3,500 pages of circuit references and topped the load with tables and machines needed to start Betty and Gayle in business.

Early one morning I drove off into the dawn of a fine clear September day. The sun greeted me as the truck labored over the Grapevine route through and over the mountains north of Los Angeles and stayed with me through the 100-plus degree of California's Central Valley Country. Three hamburgers and three rootbeer frosties, later, the truck, load and I pulled into North Highlands. Along the way I acquired an Echophone EC-2 radio, my only trophy from 400 miles of small-town junk shops.

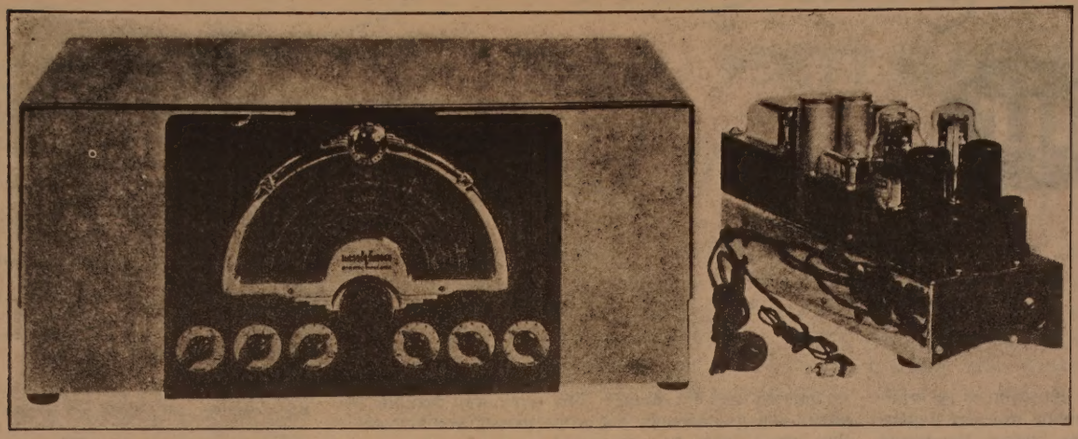
I was greeted by an enthusiastic group consisting of Gayle and Betty with their somewhat less enthusiastic husbands. Next day a large band of nieces, nephews, cousins and friends gathered to unload the truck, stacking books in the local U-Store-Em establishment. We hauled circuit references and shipping paraphernelia into the homes of Betty and Gayle. I introduced Gayle and her husband John Rowland to the mysteries of circuit diagram research like early Majestic was really Grigsby-Grunow and earliest RCA radios were really made by General Electric and Westinghouse. Incidentally, John has become a real sleuth of hard to find radio schematic diagrams and spends hours tracing down the impossible ones.

Moment's rest: Gayle (left) and Betty take time to pose with their favorite book.

By the time I climbed aboard an airliner back to Los Angeles, Vintage Radio was all set up in its new home. Betty and Gayle picked up the routine very fast. Since last September books and diagrams have been coming to our readers just like before, but from a different post office.

Sales have gone so well that most of our soft cover books are gone except for Supreme's radio diagrams books. Our remaining books are VINTAGE RADIO, A FLICK OF THE SWITCH, hardcover, GERNBACK'S 1927 RADIO ENCYCLOPEDIA, hardcover, and the Circuit Diagrams book. With the rising cost of packing materials and postage, we have also had to add a packing and mailing charge of 50 cents per book. Gayle and John will continue to do the radio diagrams research service as long as they still have books to ship too.

Vintage Radio's new address is McMahon's Vintage Radio, Box 1331, North Highlands, California 95660. or phone Gayle at 916



A RECEIVER BOTH BEAUTIFUL IN APPEARANCE AND PRACTICAL IN OPERATION

The tuner assembly is chromium plated throughout with extra shielding provided by the overall chromium cover. The unit at the right is the power supply and 30-watt beam-power amplifier.

1937 Refinements in a New "Lab-Built" Super

Presenting information on this new receiver which is now undergoing "air tests" at the Fairfield Listening Post, the results of which will be covered in a near future issue

By McMurdo Silver

TO attempt in a brief article to fully describe a new receiver which offers a number of new engineering developments is an impossibility. What follows is therefore only the "high-spotting" of the new 20-tube Masterpiece V which consists of the 14 tube completely shielded tuner, the 6-tube electron beam-power amplifier and power supply, and the new 18 inch, 68 lb. speaker, several times more efficient and sensitive than existing speakers. Figure 1 shows the complete tube line-up, and while in itself unique and new, it gives no inkling of the many new circuit developments which it cannot show. The complete schematic diagram will be shown next month, together with further discussion of the circuit features.

4.2—2140 Meters

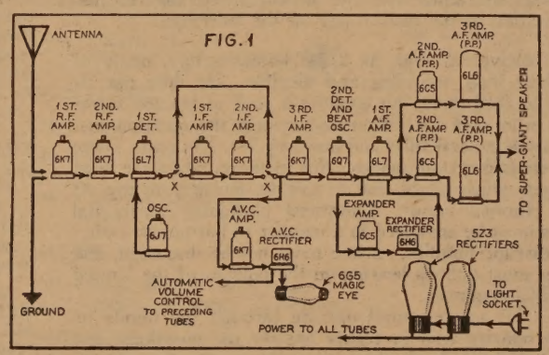
The tuning range, in five bands accurately calibrated on the 9-inch dial, is 140 to 430 kc. for long waves, and 535 to 70,000 kc. without a gap. This is 2140 to 700 and 560 to 4.287 meters, which covers every broadcast service on the air from long wave Europeans down to below the 5 meter amateur band, and includes the rapidly developing ultra high frequency "apex" bands of 26 and 31 to 40 megacycles.

The new "lance" dial makes tuning surprisingly easy for it sensibly enlarges tuning scale size for successive short-wave bands, making the 49 to 16 meter dial band 7 inches in diameter and the 16 to 4.3 meter dial being 8 inches in diameter. The dial can be read to 10 kc. even at 25 meters. This accurate reading is made possible by a knife edge pointer that effectively eliminates the parallax reading error of ordinary flat pointers spaced appreciably away from the calibrated scale of the dial itself.

Separate band-spread reading is provided by a new micrometer dial behind the tuning knob, upon which main dial station spread and separation is amplified ten times for precise tuning. This method of band-spreading permits accurate "logging."

The single tuning knob provides a 50:1 ratio for one knob turn (in either direction) and then automatically shifts to a 10:1 ratio. Accurate tuning is made easy, and mandatory, by this "free wheeling" dial, and the "Magic Eye" on the dial, calibrated to measure signal strength, fading and over modulation of stations as weak as 1 microvolt.

FIG. 1



Circuit Features

Circuitwise, the two stages of air-tuned radio-frequency amplification pioneered in all-wave broadcast receivers by the Masterpiece IV are retained in the new set. These are in circuit on four bands, from 140 kilocycles to 19 megacycles, and account for the complete absence of "repeat points" on short waves, and the phenomenally low inherent circuit noise.

These two stages of t.r.f. set the limit of inherent noise down at that low level of 15 milliwatts at maximum sensitivity—a small fraction of the internal noise found in receivers using only one r.f. stage.

Sensitivity from 140 to 19,000 kc. is set at one-half microvolt absolute due to the seven times greater Super-Giant speaker efficiency. Circuit and tube noise are substantially zero at sensitivities of 5.0 microvolts or greater.

Sensitivity is automatically regulated by an improved automatic sensitivity control (a.v.c.) and by a sensitivity switch on the expander knob which reduces sensitivity to 5 microvolts, at will, for local reception. This a.v.c. system uses two tubes, a tuned a.v.c. amplifier and a rectifier, and through its circuit position and constants holds all signals above 20 microvolts at the same apparent ear volume.

Selectivity is no longer the conventional V-shaped side-band cutting curve, but rather one of the band-pass type. The fidelity knob gives the choices of 18 kc. or 8 kc. selectivity (corresponding to 9,000-cycle high fidelity and 4,000-cycle high-selectivity audio modulation bands.) Non-microphonic tuning and trimmer condensers and wiring, plus unusually thorough cushioning, completely eliminates that short-wave bugaboo, microphonic howling. Through the fidelity knob, a choice is provided of three 465 kc. dual air-tuned i.f. amplified stages for extreme DX, or one stage for local high-fidelity reception.

The diode second detector is unusual in that it is operated at the very low level of 1.0 to 1.5 volts, to decrease second-detector distortion. The triode portion of this 6Q7 tube is the beat oscillator, which operates at its second harmonic to eliminate spurious beats.

Following the second detector comes the three-stage audio amplifier with a built-in electronic volume expander and the new 6L6 electron beam power tubes which have long been awaited. The volume expander knob first drops average volume 20 db. and then adds it back into reproduction by expansion or the loudening to original naturalness of studio-compressed music. It is impossible to describe the effect on the listener of this expansion, so new and thrilling are its effects on music. The writer recalls in July, 1935, being one of over 100 engineers at the I. R. E. Convention demonstration of the first expanders. Being hard boiled we came to scoff—and remained to shout and stomp with enthusiasm when we heard it. Since that first revelation, expander adaptors have been made but it has taken a year to design and perfect the built-in expander employed in this new receiver.

The audio amplifier is resistance-coupled throughout to eliminate the last traces of the hysteretic distortion of audio transformers. Total distortion of all types is only 2 per cent at full 32 watt output, while at ordinary home play levels of one to five watts, it is so low as to be practically unmeasurable.

The net result of all this is tone so clear that the last small trace of scratch and "marbles" of previous fine amplifiers is completely eliminated. This tone is controllable (in addition to automatic aural tone compensation), to be anything desired. By two tone knobs it can be set "flat" from 20 to 9,000 cycles or its treble range can be boosted 10 db. to make up for treble tone absorption in particular rooms, or smoothly cut down so there are no treble tones left above 1500 cycles. Bass can similarly be cut completely out for noise reduction in DXing, or it can be boosted a total of 18 db. to the point where deep organ notes actually cause walls to shake. This new and complete control of tone makes the tone of this receiver instantaneously anything desired at the will of the user—all things to all men.

Conservative operation of the push-pull 6L6's dictates an undistorted power output of 30 to 32 watts. Intelligent design says that to put 30 watts into any ordinary loud speaker of 5 per cent efficiency is to get only 1.5 acoustic or sound watts. So for the "Masterpiece V" a totally new speaker of 35 per cent efficiency was developed. Its seven times greater efficiency results in this 30 watts equalling 210 watts fed to any ordinary loud speaker and more than takes care of crescendos in music—doing it without the least trace of blasting or distortion.

The new Super-Giant speaker is both a bass and "tweeter" speaker in one unit. It is the first loud speaker to cover the range of 20 (note the 1 to 2 bass octaves added) to 9,000 cycles It does this by virtue of a new duel cone invention of Major Glen. The inner cone is stiff and small for "tweeter" operation, while the outer 16 inch cone is large and relatively softer, as it should be for bass tone.

As this 9,000 cycle range is higher than is needed for 6,000 cycle chain network programs or for any but the very best studio originated programs, a three-section "high-fidelity" filter in the speaker is cut in or out by a switch on the speaker base. This at last permits clearing up of distortion due to prevalent station overmodulation (indicated by "Magic Eye" flicker) and the elimination of noise during the 90 per cent of listening time that only 6,000 cycle chain net-work tone range is needed.

on the air

RADIO SPOOKS

By Ecks Ray

LADIES and gentlemen, I do not claim to be infallible, but if anything is troubling you—any question relative to love, marriage, finance, the future—write to me. Enclose one dollar—"

It is the voice of *"Eckes, Eay, Ah, Doble-oo; la voz de el servicio international."* Or of *"Eckes, Eay, Pay, Enny;* the voice of the western hemisphere." In other words, it is the voice of one of the powerful radio stations along the Texas-Mexico border whose call letters begin with "X-E" and are announced in both Spanish and English, and whose individual broadcasts reach almost as many listeners as does an entire network of American stations. And the benignant words which open this article come to you from one of the professional "spooks" connected with these stations.

Spooks, in the parlance of the radio profession, are not disembodied spirits. On the contrary, they are very materialistic gentlemen, and sometimes ladies, although women are not generally credited with good "commercial" voices; hence, "spooking" being a strictly commercial proposition, lady spooks are not as much in demand as their masculine competitors.

You have doubtless listened in—if only momentarily, in the course of twirling your dial—to these suave gentlemen beseeching you to permit them to solve all your vexatious problems: apprehend and drag into the light of day that coy and elusive fate of yours which is ever hiding just around the corner of the future; advise you on all your doubtful decisions, from planting your potatoes by the light or the dark of the moon, to choosing your life mate or investing in oil stock.

Have you taken any one of these radio spooks at his word, and sent him a dollar to exercise his mystic powers in your behalf? Was the veil rent, and did Astrologer Koran, or Brandon the Man of Destiny, reveal those secrets which only the Fates are supposed to know? Judging by the deluge of fan mail from "satisfied customers," you would say that the most extravagant claims of these modern knights of the Mystic Veil are not exaggerated. A handful of letters picked at random from the files of any one of them might convince the most sceptical of their magic powers.

A YOUNG man wrote Gayle Norman the 2nd, one of the leading psychologists of the Mexican border fraternity of radio spooks, stating there were no funds with which to meet a mortgage of $4,500 on his mother's home; would the loan they were negotiating go through in time to save the home? The reply was that the loan would not go through, but some money would come to the family from an unexpected source in time to save the property. The day before the mortgage fell due, the mother went into the attic to search for some lost articles. In the course of the search she found under a loose board exactly $4,500 which had been hidden there by her grandfather!

Certain notorious criminals in Texas had evaded the law successfully for too long a time. A peace officer with different ideas consulted Ethel Duncan, dean of women spooks, who employs as her trade name "The Good Samaritan," and the outlaws were promptly apprehended!

Are such records as the above proof that these radio mentalists can, indeed, perceive things hidden from us ordinary mortals? Or do they merely prove the prevalence of coincidence?

Gayle Norman the 2nd, whose mystic influence is credited with the finding of the long concealed sum which redeemed the mortgage in Oklahoma, visited the Kentucky Derby recently, and dropped most of his savings on the ponies. Ethel Duncan was swindled and deceived by a business partner. Was the outcome of the races too much for Gayle to forsee? And could not Ethel's powers of divination warn her that her partner was making misstatements to her?

Now, here is the most surprising thing of all. Gayle Norman never even saw the letter from the young man in Oklahoma, much less the answer foretelling the materialization of the cash to pay off the mortgage!

HE receives as high as 2,000 letters a day, many of them long, rambling and illegible. He does not attempt to read them, but employs a staff of trained secretaries who read the letters and answer the questions according to general rules laid down by Mr. Norman. These rules contain certain taboos. For instance, no advice must be given which might lead to suicide, murder, or any act of a criminal nature. Questions pertaining to marital affairs must be answered in a manner to harmonize rather than disrupt families. Crime must not be discussed, and neither must queries bearing on the policies of the United States Government.

Does his master mind operate through the minds of the secretaries who in reality answer the questions sent to Mr. Norman? Is there anything to this "spooking" proposition, or is it just a racket? Your answer to that question is as good as mine.

RADIO DIGEST, October 1934

I have spoken of Gayle Norman the 2nd, in particular, because for over two years he has been the most popular mentalist operating over the Texas-Mexico border stations. He has been located both at XEAW in Reynosa, Mexico, and at XEPN, at Piedras Negras. His announcer introduces him as the man who knows and has experienced life. You may think of him as an elderly sage, or at least a middle-aged man of pensive gravity and the experience which comes only with mature years. As a matter of fact, he is under thirty, good looking, with large, brilliant, blue eyes, wavy brown hair, and is a natty dresser.

WHEN recently pending Mexican legislation threatened to abolish radio psychologists—"spooks" to the profession—XEPN, at Piedras Negras, Mexico (with remote control broadcasting studios on this side of the line at Eagle Pass, Texas), concluded to cash in on such remaining time as was vouchsafed before the new laws went into effect. Three other spooks were engaged: Brandon, "Man of Destiny," an astrologer; Ethel Duncan, the "Good Samaritan," a seeress somewhat on the order of Norman himself; and Marjah, a mysterious, Hindoo type of mentalist. Mr. Norman resented the intrusion of all this competition. The newcomers might be Indian princes, or second sighters or seventh sons of seventh sons, but Gayle did not care what they were sons of; they were poaching on his particular psychic preserves.

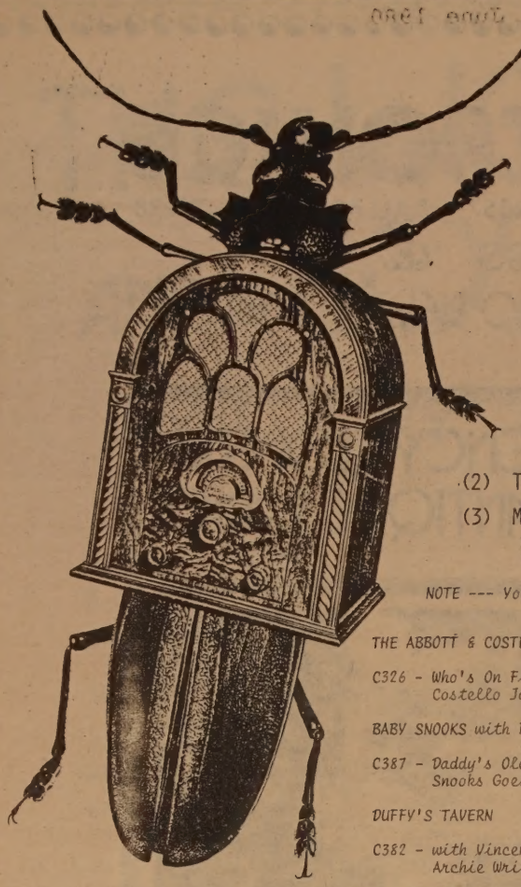
He informed the station owners that if the intruding spooks continued on the air, XEPN would be closed by the Mexican government not later than the middle of March, and would remain closed until the contracts of the other spooks were cancelled and his own contract renewed. The owners scoffed at such a prediction. Their spooks were engaged to minister to the superstitions of their audiences, not to put any "hoodoos" on the station itself. Plenty of red tape lay ahead, before Mexico would be ready to act on the new laws, just then being discussed, relative to border stations licensed by the Mexican government. Besides, XEPN had inside connections in Mexico City. Mr. Norman, however, made his preparations to leave for Kentucky during the enforced shut-down which he had predicted.

ON March 15th, Mexican officials ordered XEPN off the air. XER, the station owned and operated by Dr. John Brinkley, of rejuvenation fame, had already been closed because Dr. Brinkley's broadcasts conflicted with medical laws of the Republic of Mexico. XENT, at Laredo, was just opening, with a less powerful wattage than the older stations. XEAW, at Reynosa, was closed for repairs and internal changes.

XEAW, which, by the way, is having its call letters changed to XEM, is scheduled to open again early in July, with Ethel Duncan, the Good Samaritan, occupying its chair of psychology.

All the rival spooks have filtered out of XEPN, with the exception of Brandon, Man of Destiny, and Gayle Norman "foresees" his early egress. Mr. Norman has returned from Kentucky to resume his sway at XEPN. Whether the return of the prodigal spook at this time is due to the fact that he dropped his bank roll at the Derby and desires to replenish it, or to some occult assurance that the conditions of his prediction are about to be fulfilled and XEPN is about to reopen with himself as the station's sole mentalist, is also a question which only a radio spook may answer.

Certain it is that these border stations would have hard financial sledding without their spooks. Most of them receive their principal revenue from their split from the spook acts. Each of these psychic features draws from $400 or $500 to $2000 a day through the mails.



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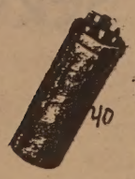

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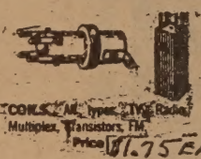

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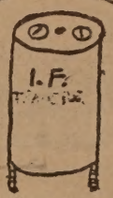

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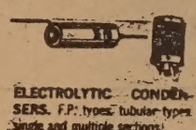

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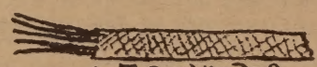

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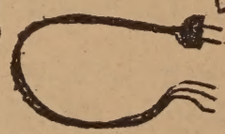

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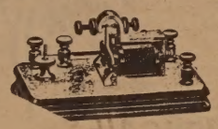

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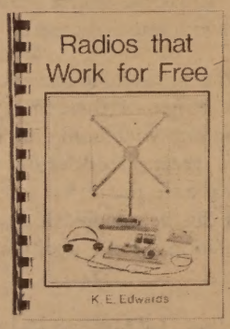

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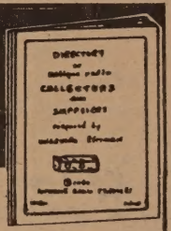

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18 or 25 tube

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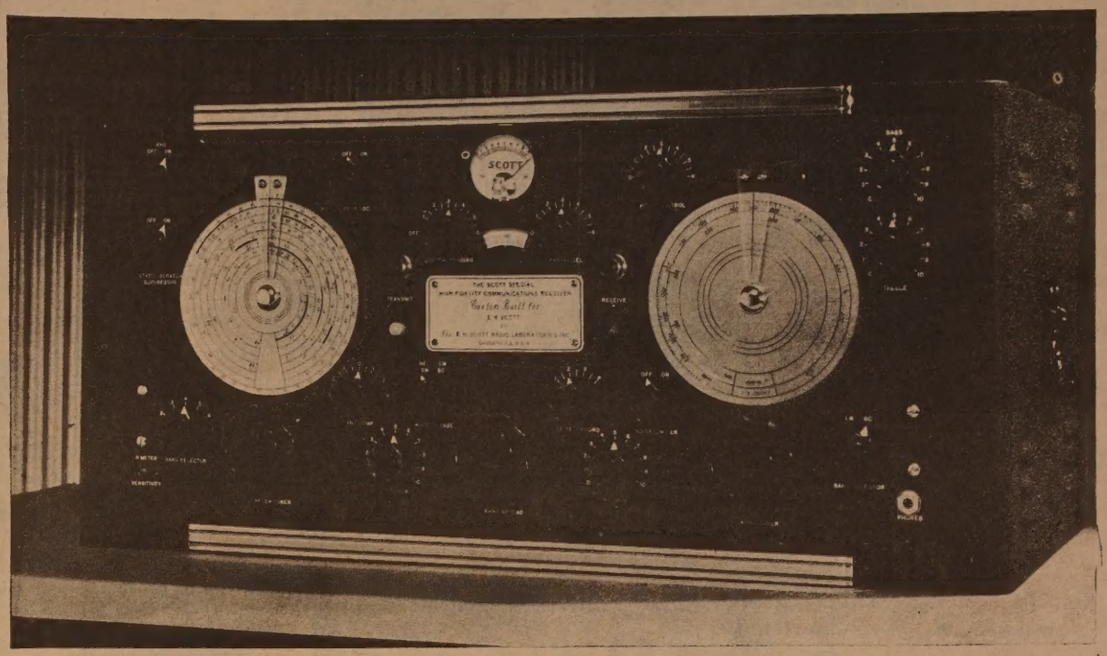
Radios by E. H. Scott and McMurdo Silver and I want the Zenith Stratosphere



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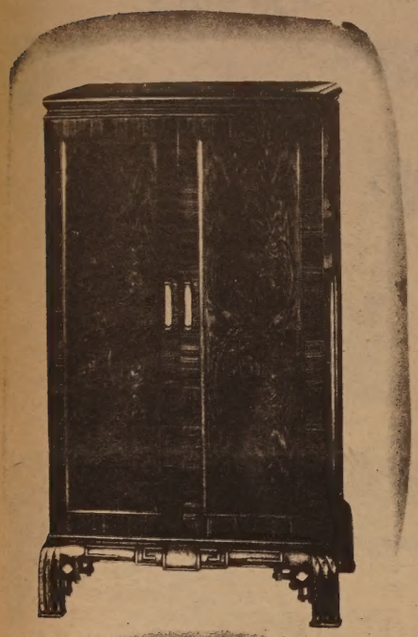

The Roslyn Grande

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NEED NOT WORK BUT MUST BE ORIGINAL AND COMPLETE

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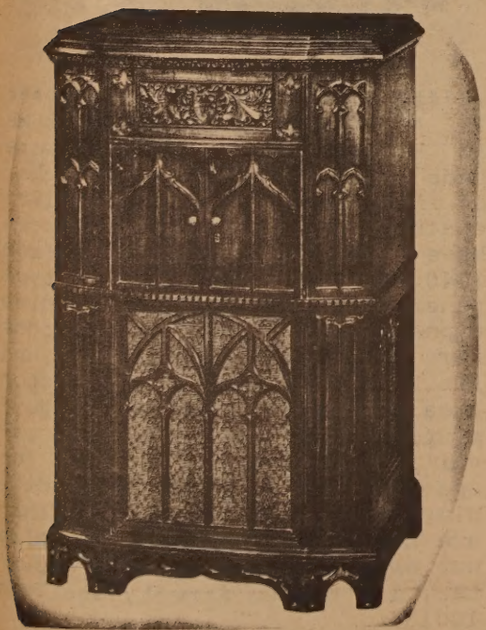
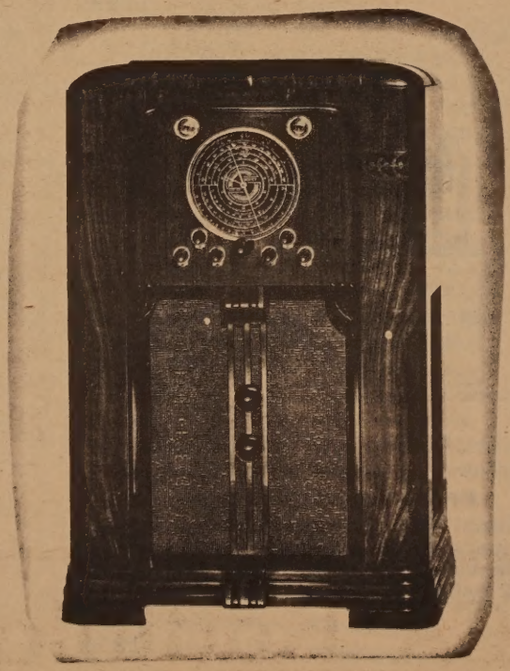
Also looking for radios by Leutz and Norden Hauck



The Gothic Grande



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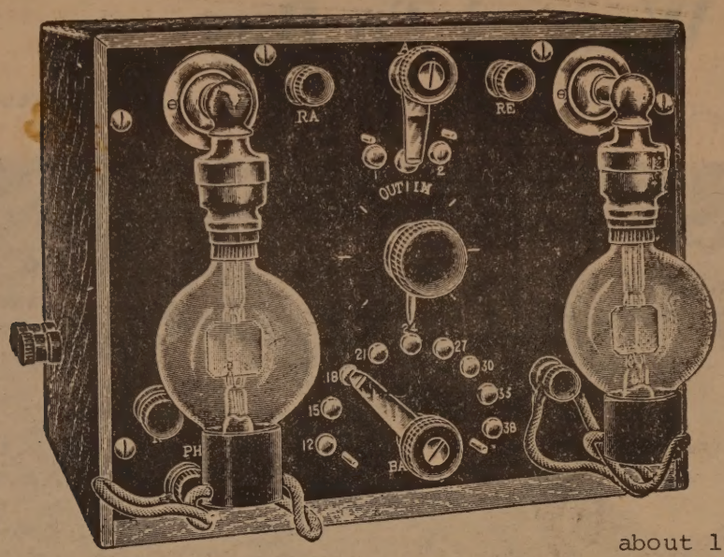
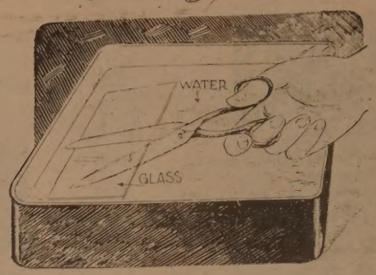


about 1914

Professional type of audion detector. It is provided with two super-sensitive Audion Bulbs, high voltage local battery, potentiometer switch graduated to show voltage at any point, switch to change from one bulb to the other, and rheostat to change brilliancy of filament.

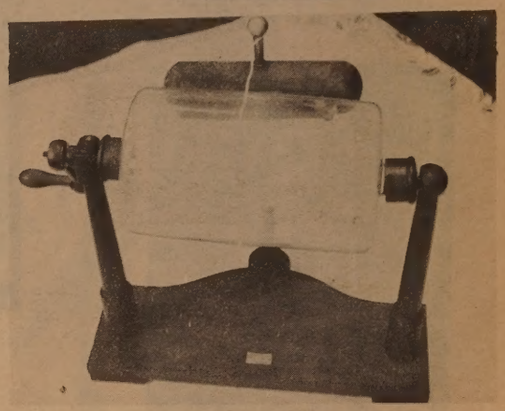
Cutting Glass

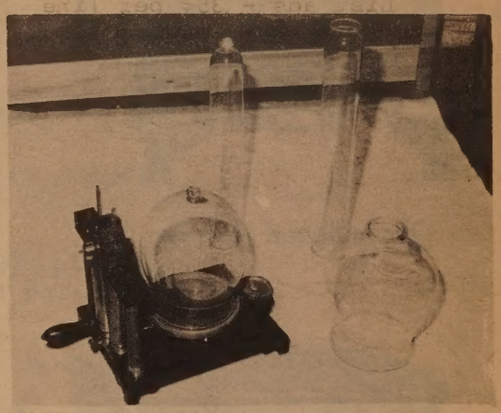


If thin sheet glass is held under water it may be shaped with scissors without cracking. The scissors should be heavy and the glass not too thick. Work around the edges and corners little by little.
—A. Blumenfeld.

Science and Invention for July 1924

FOR SALE





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Runs Six Records with One Winding.

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1 $25 Columbia Graphophone	
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12 Musical Records (your own selection, all guaranteed)	5.00
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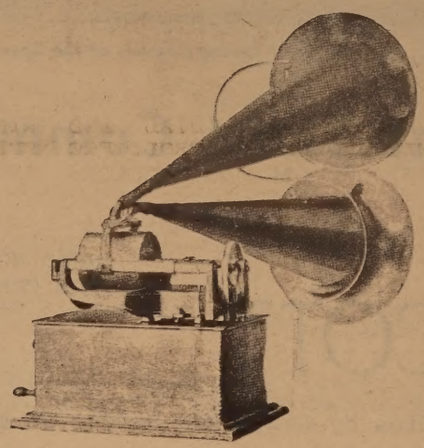
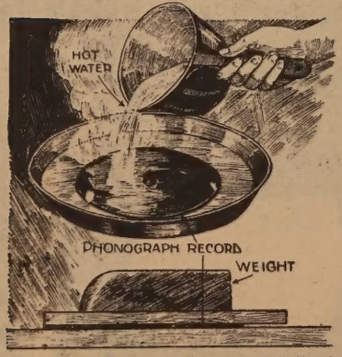
1 Concert Horn	.40
	$31.90

Polyphone Concert Grand.



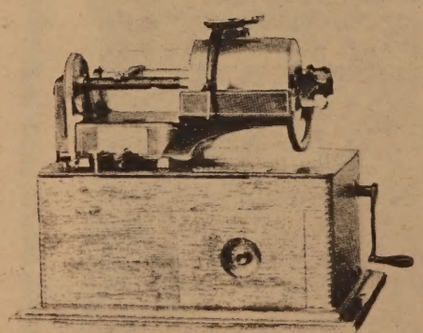
1899

Warped Records



When phonograph records become warped it is only necessary to place the record in a pan, cover it with warm water and then compress it between two flat surfaces and a large weight as shown in the above illustration. —E. D. Johnson.

Science and Invention for July, 1924



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Edison 5-inch Records	each,	$ 4.00
Other make 5-inch Records	"	2.50
Blanks	"	1.50
12 Record Case		7.50

1899

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THE ABOVE PICTURED VACUUM PUMP AND ELECTROSTATIC GENERATOR were made by W&S Jones an early maker of instruments in the early 19th century. Several expert sources have dated the machines from 1740 to 1790. The drum type generators were replaced by disc types around 1765. These devices were used by an inventor and visiting professor in the Boston area around the time of the Revolution. They are being made available to someone who has the space and to care for and display them. Unfortunately they are not cheap, in fact, they're not even reasonable. Doug Dexter, 151 Hudson Street, New York 10013
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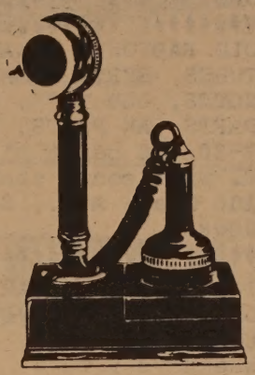
TELKOM ROARING '20's DECORATOR TELEPHONE



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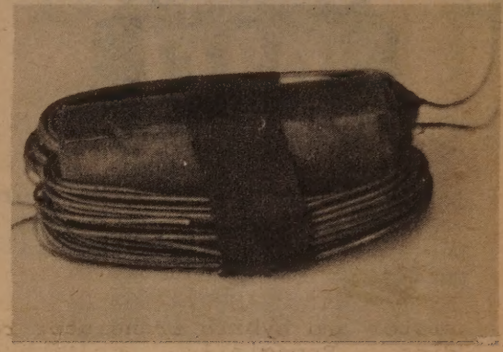

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WANTED

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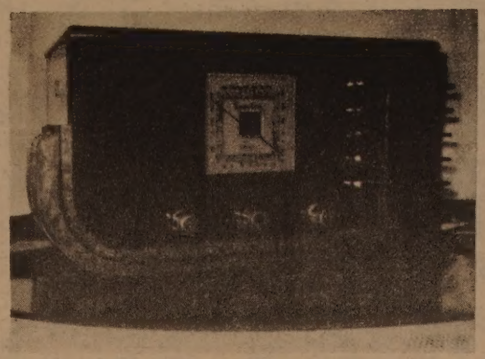
WANTED



COLORED MIRRORED RADIOS (blue, peach and green) wanted by obsessed collector. I'm also interested in colored mirrored clocks. Can use any unusual items from art deco period, such as chrome radios, etc. Also wanted: Philco Predicta television sets, coin operated radios. Barbara Groton, Box 1252, Dayton, OH 45401. (513) 253-5073 evenings.

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MILITARY RADIOS BEGINNING WITH THE LETTERS "SS" - (EXAMPLE SSTR-1); MILITARY RADIOS BUILT INSIDE COMMERCIAL STYLE SUITCASES; SMALL MILITARY RADIOS; RS-6.

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PUETT ELECTRONICS

PUBLISHERS OF P.O. BOX 28572 DALLAS TEXAS 75228

ANTIQUE RADIO TOPICS & THE CLASSIC RADIO NEWSLETTER

LIST NO. 18A

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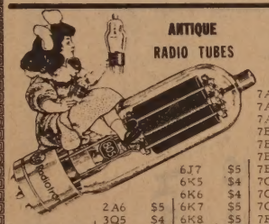

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HERE ARE A FEW OF THE 800 DIFFERENT TYPES OFFERED IN OUR CATALOG No. 18A! ALL TUBES ARE GUARANTEED. SEE OUR POLICY STATED IN CATALOG.

				6J7	$5	7A6	$5	24A	$6	50A5	$4
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		3Q5	$4	6K8	$5	7B6	$5	26	$7	51	$5
0D3	$3	3V4	$4	6L5	$5	7B7	$5	27	$5	55	$6
0Z4	$4	5AZ4	$6	6L6	$4	7B8	$5	30	$6	56	$4
1A7	$4	5U4	$3	6L7	$5	7C5	$4	32	$5	57	$4
1H5	$4	5Y3	$4	6Q7	$5	7C6	$5	34	$5	58	$5
1L6	$9	5Y4	$4	6SA7	$4	7C7	$5	35	$5	70L7	$6
1LA6	$5	5Z3	$4	6SB7	$4	7F8	$7	35A5	$5	71A	$8
1LB4	$5	6A7	$7	6SC7	$4	7G7	$5	35L6	$4	75	$5
1LD5	$5	6A8	$5	6SG7	$5	7H7	$5	35W4	$4	76	$4
1LE3	$5	6C5	$4	6SJ7	$4	7Y4	$5	35Y4	$5	77	$5
1LN5	$5	6C6	$5	6SK7	$4	10	$8	35Z3	$4	78	$5
1N5	$5	6D6	$5	6SL7	$4	12A7	$5	36	$5	79	$5
1R5	$3	6E5	$8	6SQ7	$4	12AT6	$3	37	$5	80	$4
1U4	$4	6F5	$5	6U5	$8	12AV6	$3	38	$4	81	$7
1U5	$4	6F6	$6	6U7	$6	12B7	$5	39	$4	83V	$4
1V	$6	6G5	$8	6V6	$3	12BA6	$3	40	$8	84	$4
2A3	$8	6H6	$3	6X5	$3	12BE6	$3	41	$5	85	$5
2A5	$5	6J5	$4	7A5	$4	12K7	$5	42	$5	89	$5
						12Q7	$5	43	$5	117L7	$6
						12AS7	$4	44	$4	117Z3	$4
						12SG7	$4	45	$7	117Z6	$5
						12SK7	$4	46	$5		
						12SQ7	$4	47	$8		
						14A7	$5	50	$8		

OLD TIME RADIO SHOWS ON CASSETTES

SEND ONE FIRST CLASS MAIL STAMP FOR OUR SHORT LIST OF PROGRAMS. HUNDREDS ARE LISTED IN OUR CATALOG No. 18A.

Amos & Andy, Fibber McGee & Molly, Inner Sanctum, etc.

IT'S NEW radio ideas

THE ENCYCLOPEDIA OF ANTIQUE RADIO $7.95 POSTPAID
SIMILAR CONTENT, BUT COVERING SETS OTHER THAN THOSE INCLUDED IN Vintage Radio AND A Flick Of The Switch.

THE DIRECTORY OF ANTIQUE RADIO SERVICES $3.00 POSTPAID - SERVICES & SOURCES THROUGHOUT THE U.S.A.

BOOKS, BOOKLETS, LISTS & DATA

Booklets listed in (1) thru (5) below are $2. each, 3 for $5., 4 for $6. or 5 for $7.

(1) The Acquisition Of Antique Radios by J. W. F. Puett
(2) The Complete Restoration of Battery Powered Antique Radios by J. W. F. Puett
(3) The Complete Restoration of AC Powered Antique Radios by J. W. F. Puett
(4) When Was That Old Tube Made? by James R. Wilkins
(5) Antique Radio Tube Substitution by J. W. F. Puett

(6) SILVER GHOSTS by J. W. F. Puett (history of E. H. Scott) $8.95
(7) THE CLASSIC RADIO COLLECTORS HANDBOOK by J. W. F. Puett $10.00
(8) THE APPRAISAL OF ANTIQUE RADIOS by J. W. F. Puett $4.95
(9) The PUETT ELECTRONICS Super Antenna - Ground System Plans $2.00
(10) Cross Reference List of Military vs. Commercial Tube Type Numbers $1.00

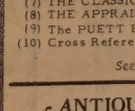
See listing for Encyclopedia and Directory on this page.

SCHEMATIC DIAGRAMS

WE HAVE SCHEMATICS FOR NEARLY ANY ANTIQUE RADIO RECEIVER! Send name of manufacturer & model number of set - $1.50 postpaid. Without name of mfg. and/or model No. we will search our files for $3.00, but we must have a sketch of top of chassis showing type numbers and location of all tubes and location of front panel & dial.

APPRAISAL

WE OFFER THOROUGHLY DOCUMENTED APPRAISALS FOR INSURANCE PURPOSES. Many insurance companies offer special antique insurance policies which cover items which have been properly appraised. SEND ONE FIRST CLASS MAIL STAMP FOR OUR APPRAISAL BROCHURE.



ANTIQUE RADIO TOPICS & THE CLASSIC RADIO NEWSLETTER

THREE PERIODICALS IN ONE!!! YOU GET ALL THREE!!!
ANTIQUE RADIO TOPICS --- THE CLASSIC RADIO NEWSLETTER
THE ANTIQUE RADIO NEW ACQUISITIONS LIST

SEND FOUR FIRST CLASS MAIL STAMPS FOR A SAMPLE ISSUE. PUBLISHED TEN TIMES PER YEAR. ALL SUBSCRIBERS RENEW IN JANUARY OF EACH YEAR. PLEASE WRITE FOR OUR SUBSCRIPTION RATES. CLASSIFIED ADS ARE FREE! WHEN PUETT ELECTRONICS HAS RARE TUBES TO SELL (WD-11, 99, 01A, etc.), OUR SUBSCRIBERS HAVE THE FIRST OPPORTUNITY TO PURCHASE THESE THROUGH THE ANTIQUE RADIO NEW ACQUISITIONS LIST WHICH IS SENT TO SUBSCRIBERS ONE WEEK BEFORE IT IS MADE AVAILABLE TO OTHER CUSTOMERS.

JUNE JULY AUGUST

THE HORN SPEAKER

1980

11950 kc. KKQ
-X- 25.10 meters
BOLINAS, CALIF.
Tests, irregularly, evenings

11940 kc. FTA
-C- 25.13 meters
STE. ASSISE, FRANCE
Phones CNR morning, Hurlingham, Arge., nights

11890 kc. ★
-B- 25.23 meters
"RADIO COLONIAL"
PARIS, FRANCE
11:50 a.m.-6 p.m.

11870 kc. ★W8XK
-B- 25.26 meters
WESTINGHOUSE ELECTRIC & MFG. CO.
PITTSBURGH, PA.
5-9 p.m.
Fri. till 12 m
Relays KDKA

11860 kc. GSE
-B- 25.29 meters
DAVENTRY,
B.B.C., BROADCASTING HOUSE, LONDON, ENGLAND

11830 kc. W2XE
-B- 25.36 meters
ATLANTIC BROADCASTING CORP.
485 MADISON AVE., N. Y. C.
Relays WABC 6-8 p.m.

11810 kc. ★2RO
-B- 25.4 meters
E.I.A.R.
Via Montello 5
ROME, ITALY
8:15-9 a.m., 9:15-10:15 a.m., 12 n.-1 p.m., 1:45-5 p.m.

11800 kc. CO9WR
-X- 25.42 meters
P. O. Box 85
SANCTI SPIRITUS, CUBA
Testing in early evening

11790 kc. W1XAL
-B- 25.45 meters
BOSTON, MASS.
Sun. 5-7 p.m.

11770 kc. DJD
-B- 25.49 meters
BROADCASTING HOUSE, BERLIN, GERMANY
12-4:30 p.m.

11750 kc. ★GSD
-B- 25.53 meters
DAVENTRY,
B.B.C., BROADCASTING HOUSE, LONDON, ENGLAND
3-5 a.m., 9 a.m.-12n; 12:15-4 p.m.

11730 kc. PHI
-B- 25.57 meters
HUIZEN, HOLLAND
Daily exc. Tues. and Wed. 8:30-10:30 a.m., Sun. 8:30-11:30 a.m.

11720 kc. ★CJRX
-B- 25.6 meters
WINNIPEG, CANADA
Daily, 8 p. m.-12 m.

11715 kc. ★
-B- 25.61 meters
"RADIO COLONIAL"
PARIS, FRANCE
7-10:10 p.m.
11 p.m.-1 a.m., 6-6:10 a.m.

11710 kc. ★HJ4ABA
-B- 25.62 meters
P. O. BOX 50,
MEDELLIN, COLOMBIA
6:30-10:30

10770 kc. GBP
-B- 27.85 meters
RUGBY, ENGLAND
Calls Sydney, Austral. early a. m.

10740 kc. ★JVM
-B- 27.93 meters
NAZAKI, JAPAN
Daily 12m.-1 a.m., 4-8 a.m. Tues. and Fri. 2-3 p.m.

10675 kc. WNB
-C- 28.1 meters
LAWRENCEVILLE, N. J.
Calls Bermuda, daytime

10670 kc. ★CEC
-C- 28.12 meters
SANTIAGO, CHILE
Broadcasts Thurs., Sun. 8:30-9 p.m.

10660 kc. ★JVN
-C- 28.14 meters
NAZAKI, JAPAN
Broadcasts irregularly 2-7:45 a.m.

10550 kc. WOK
-C- 28.44 meters
LAWRENCEVILLE, N. J.
Phones Arge., Braz., Peru, nights

10520 kc. VLK
-C- 28.51 meters
SYDNEY, AUSTRALIA
Calls Rugby, early a.m.

10430 kc. YBG
-C- 28.76 meters
MEDAN, SUMATRA
5:30-6:30 a. m., 7:30-8:30 p. m.

10420 kc. XGW
-C- 28.79 meters
SHANGHAI, CHINA
Calls Manila and England, 6-9 a. m. and California late evening

10410 kc. PDK
-C- 28.80 meters
KOOTWIJK, HOLLAND
Calls Java 7:30-9:40 a. m.

10410 kc. KES
-X- 28.80 meters
BOLINAS, CALIF.
Tests evenings

10350 kc. LSX
-C- 28.98 meters
MONTE GRANDE, ARGENTINA
Tests irregularly 8 p.m.-12 midnight.

10330 kc. ORK
-B-C- 29.04 meters
RUYSSELEDE, BELGIUM
Broadcasts 1:30-3 p.m.

10300 kc. LSL2
-C- 29.13 meters
HURLINGHAM, ARGENTINA
Calls Europe, evenings

10290 kc. DIQ
-X- 29.16 meters
KONIGSWUSTERHAUSEN, GERMANY
Broadcasts irregularly

10260 kc. PMN
-C- 29.24 meters
BANDOENG, JAVA
Calls Australia 5 a.m.

10250 kv. LSK3
-C- 29.27 meters
HURLINGHAM, ARGENTINA
Calls Europe and U. S., afternoon and evening

10220 kc. PSH
-C- 29.35 meters
[illegible] BRAZIL

9840 kc. JYS
-X- 30.49 meters
KEMIKAWA-CHO, CHIBA-KEN, JAPAN
Irregular, 4-7 a. m.

9800 kc. LSE
-C- 30.61 meters
MONTE GRANDE, ARGENTINA
Tests irregularly

9790 kc. GCW
-C- 30.64 meters
RUGBY, ENGLAND
Calls N.Y.C., evening

9760 kc. VLJ-VLZ2
-C- 30.74 meters
AMALGAMATED WIRELESS OF AUSTRALIA
SYDNEY, AUSTRALIA
Phones Java and N. Zealand early a.m.

9750 kc. WOF
-C- 30.77 meters
LAWRENCEVILLE, N. J.
Phones England, evening

9710 kc. GCA
-C- 30.89 meters
RUGBY, ENGLAND
Calls Arge. & Brazil, evenings

9635 kc. ★2RO
-B- 31.13 meters
E.I.A.R.
ROME, ITALY
M., W., F. 6-9 p.m.

9625 kc. ★CT1AA
-B- 31.17 meters
LISBON, PORTUGAL
Tues., Thurs., Sat. 4:30-7 p.m.

9595 kc. ★HBL
-B- 31.27 meters
LEAGUE OF NATIONS
GENEVA, SWITZERLAND
Saturdays, 5:30-6:15 p. m.
Mon. at 1:45 a.m.

9590 kc. ★VK2ME
-B- 31.28 meters
AMALGAMATED WIRELESS, LTD
47 YORK ST.
SYDNEY, AUSTRALIA
Sun. 1-3, 4:30-8:30, 9-11 a.m.

9590 kc. HP5J
-B- 31.28 meters
J Street,
PANAMA CITY, PANAMA
7:30-10 p.m.

9590 kc. W3XAU
-B- 31.28 meters
NEWTOWN SQUARE, PA.
Relays WCAU
12 N-7:50 p.m.

9580 kc. ★ GSC
-B- 31.32 meters
DAVENTRY,
B.B.C., BROADCASTING HOUSE, LONDON, ENGLAND
4:15-5:45, 6-8, 10-11 p.m.

9580 kc. ★VK3LR
-B- 31.32 meters
Research Section,
Postmaster Gen'ls. Dept.,
61 Little Collins St.,
MELBOURNE, AUSTRALIA
3-7:30 a.m. except Sun. also Fri. 10:30 p.m.-2 a.m.

9530 kc. ★W2XAF
-B- 31.48 meters
GENERAL ELECTRIC CO.
SCHENECTADY, N. Y.
Relays WGY 4 p.m.-12 m.
Sun. 4:15 p.m.-12 m.

9518 kc. ★VK3ME
-B- 31.54 meters
AMALGAMATED WIRELESS, Ltd.
G. P. O. Box 1272L,
MELBOURNE, AUSTRALIA
Wed. to Sat.
5:00-7:00 a. m.

9510 kc. ★GSB
-B- 31.55 meters
DAVENTRY,
B.B.C., BROADCASTING HOUSE, LONDON, ENGLAND
3-5 a.m., 10:30 a.m.-12 n. 12:15-4, 4:15-5:45 p.m.

9501 kc. ★PRF5
-B- 31.58 meters
RIO DE JANEIRO, BRAZIL
Irregularly 4:45-5:45 p.m.

9428 kc. ★COCH
-B- 31.8 meters
2 B ST., VEDADO,
HAVANA, CUBA
10 a.m.-12 n., 4-6:30, 8-10 p.m. also 11 a.m.-12 N. Thurs.

9415 kc. PLV
-C- 31.87 meters
BANDOENG, JAVA
Phones Holland around 9:45 a.m. Broadcasts Tues. and Thurs. 10-10:30 a.m.

9330 kc. CJA2
-C- 32.15 meters
DRUMMONDVILLE, CANADA
Phones England irregularly

9280 kc. GCB
-C- 32.33 meters
RUGBY, ENGLAND
Calls Can. & Egypt, evenings

9170 kc. WNA
-C- 32.72 meters
LAWRENCEVILLE, N. J.
Phones England, evening

9125 kc. HAT4
-B- 32.88 meters
"RADIOLABOR,"
GYALI-UT 22
BUDAPEST, HUNGARY
Sunday 6-7 p.m.

9060 kc. TFK
-C- 33.11 meters
REYKJAVIK, ICELAND
Phones London afternoons. Broadcasts irregularly.

9020 kc. GCS
-C- 33.26 meters
RUGBY, ENGLAND
Calls N.Y.C., evenings

9010 kc. KEJ
-C- 33.3 meters
BOLINAS, CAL.
Relays NBC & CBS
Programs in evening irregularly

8795 kc. HKV
-B- 34.09 meters
BOGOTA, COLOMBIA
Irregular; 6:30 p.m.-12 m.

ART B CORBUS
5704 11TH AVE NW
SEATTLE WA-98107